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Chinese Civil Defense: An Adjunct of Warfighting Potential

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A Research Paper

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March 1982





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A Research Paper

Information available as of December 1981 has been used in the preparation of this report.

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This research paper was prepared by Comments and queries may be directed to the Chief, China External Division, Office of East Asian Analysis. This paper was coordinated with the National Intelligence Officer	25X1	
for East Asia, the Office of Scientific and Weapons Research, and with the former Office of Geographic and Societal Research		25X1

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	Chinese Civil Defense: An Adjunct of Warfighting Potential	25X1
Overview	Unlike the USSR and many Western powers, China defense effort as a means to continue armed resistant for military roles, and minimize damage to the nation potential. China's multifaceted program has several Protect the leadership. Defend urban areas. Preserve scientific and technical personnel. Provide additional space for commercial or indust Reduce losses to the industrial base. Shelter some of the general populace in the event conventional war.	ce, preserve manpower on's warmaking specific objectives:
	The People's Liberation Army exerts firm control of defense system. Garrison commanders in important defense through the militia commands and through Air Defense (civil defense) Offices. These organizat supervise civilian aspects of the system, and train the will use the underground shelter system as part of a Construction of shelters occurs throughout China, but the major cities of northeastern China that together million people and possess almost one-third of the newealth.	the Municipal People's ions build shelters, ne Armed Militia that an urban defense. but emphasis is given to r contain nearly 30
	Though China's civil defense preparations have impute they provide a substantial measure of protection agr. Under most circumstances the Chinese could achieve specific wartime objectives. Furthermore, control of PLA contributes to a coordinated and stubborn defetime and troops required for a successful Soviet invaprospects of a military stalemate favorable to China	ainst enemy attack. we several of their f the facilities by the ense, raises the price in asion, and increases the
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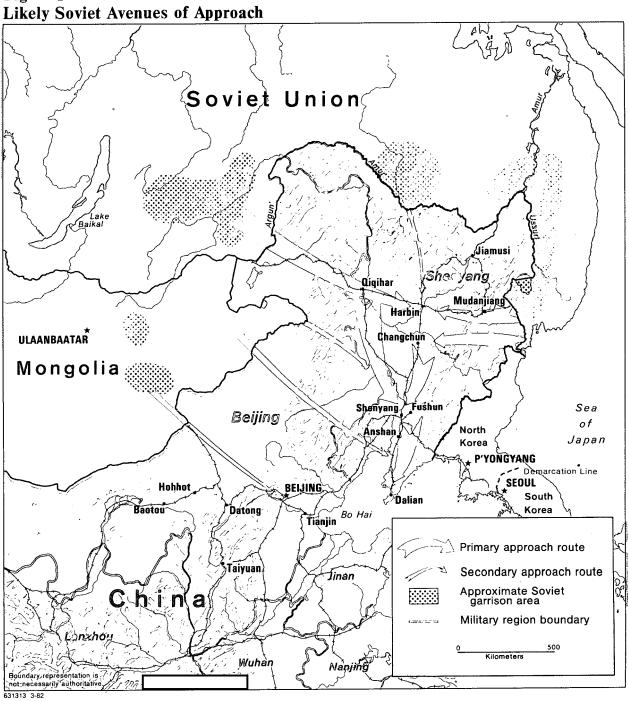
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Figure 1



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	. Sector
Chinese Civil Defense: An Adjunct of Warfighting Potential	
Role of Civil Defense in Chinese Strategy It is necessary to build our country's People's Air Defense system into an "Underground Great Wall" for people to live in, engage in production, defend themselves, launch offensives, and carry out tunnel warfare and street fighting at the same time. We should build our strategic rear into a powerful, solid base capable not only of supporting protracted war, but of fighting the war independently. Xu Xiangqian Former Minister of Defense Army Day 1978 Although the Chinese term for civil defense, renmin fangkong (literally, "people's air defense"), normally is translated as "civil defense," the Chinese meaning extends beyond the usual Western understanding of the term. In the West, civil defense implies passive measures to protect unarmed civilians from the effects of attack. Although the Chinese do intend their massive network of civil defense shelters and tunnels to protect civilians somewhat, the structures are built primarily to cover and conceal urban militia and PLA stay-behind troops who would conduct tunnel warfare and streetfighting. As such, civil defense preparations contribute to China's overall deterrent to conventional attack and help improve the PLA's prospects for stalling or defeating an invader. Chinese strategists believe that in an attack the	contain nearly 30 million people, the nation's political center—Beijing—one-third of the nation's industrial capacity including many key defense industries, and most of China's better rail lines (see figure 1 and annex). Acutely aware that existing PLA forces are no match for the highly mobile Soviet forces, the Chinese have chosen to trade space for the time required to move in massive reinforcements from central and southern China. The Chinese, however, hope to inflict on the Soviets the heaviest possible losses of men, materiel, and time and to prevent them from gaining control of the population, industrial wealth, and the important rail lines. To this end, they have built hundreds of miles of tunnels, shelters, and firing positions beneath key cities to enhance their defensive potential Because the Chinese perceive the greatest threat to be to their political and industrial heartland in the northeast—the Beijing and Shenyang Military Regions—they have emphasized building shelters and tunnels in cities such as Beijing, Shenyang, Harbin, and Dalian. Many northeastern cities have tunnels capable of carrying vehicular traffic that support the interconnecting network of tunnels to be used by defenders. Although other important cities such as Shanghai, Guangzhou, Xi'an, and Chongqing have well-developed shelter systems, only that in Shanghai appears comparable to those in the north.
Soviets would employ fast-moving armored forces to seize the principal cities of northeastern China that	25X1 25X1
China's intended use of tunnels and shelter systems in urban warfare is well described in an article entitled "Cities To Become Stalingrads in the Event of Invasion" carried in Liberation Army Daily, 17 April 1978: The major cities in the path of an enemy attack are prime objectives the aggressor wants to take and which have political, military, and economic significance for us. These cities have all been built up for many years and have strong ranks of workers and many sturdy above-ground structures and under-	ground construction works. Therefore, use of the cities is another aspect of adhering to an active defense. For these strategically important cities, there will be Stalingrad-like holding actions characterized by a powerful defense and a dogged fight. Cities which are significant to campaigns and battles must be held for a certain period of time. Defending the cities cannot be considered passive defense but rather a way to disperse and weaken the enemy in coordination with main force units which will destroy the enemy in mobile warfare
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Organization and Control

Command Structure. The military firmly controls China's civil defense system. The system's structure is part of the People's Liberation Army chain of command, thus ensuring that civil defense functions are coordinated with broad military plans. Orders originate in the General Staff Department (GSD) and flow downward through the military region and military district headquarters to the garrison commands in special cities (Beijing, Tianjin, Shanghai) and military subdistrict commands elsewhere (figure 5). Each region and district has a People's Air Defense Office, which is probably part of the PLA's Operations Department, to handle civil defense information. Command and control of the civil defense system appears to be well defined, though the rigid hierarchical system might slow the flow of orders and information in an emergency.

At the national level, the party's Military Commission establishes policy and provides guidance on civil defense.

the Military Commission also maintains a special account to aid construction and maintenance of shelters. Routine administration of civil defense programs is performed by the National People's Air Defense (civil defense) Leadership Group set up under

the PLA General Staff Department.

The national leadership group, which is headed by a GSD officer and includes the chief of the PLA Engineer Corps, establishes technical standards for all civil defense construction and directs the system through People's Air Defense Offices at the military region and district levels. The leadership group studies foreign civil defense programs, arranges for specialized technical assistance to PRC civil defense by nonmilitary organizations such as the State Capital Construction Commission and Ministry of Health, and apparently acquires special civil defense materials such as blast doors, ventilation and water systems, and nuclear detection equipment that cannot be obtained easily through local supply channels

The Municipal People's Air Defense Office is the key entity linking the national leadership group with its shelter complexes. Although the municipal office is

under the administrative control of the municipal government, operationally it is subordinate to the local garrison commander and is headed by a PLA general officer. The municipal office prepares civil defense contingency plans for the city, supervises construction of civil defense shelters, and oversees requisite training. Its seven departments in effect determine the extent and quality of civil defense work at the lowest levels throughout the urban area.

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Each PLA garrison commander controls civil defense operations through two parallel structures, the District Arms Department and the Municipal People's Air Defense Office. Through the District Arms Department he commands all militia units in the area, and he heads or advises the municipal air defense office (often colocated with the District Arms Department), which manages the shelters and administers civilian participation in the civil defense program. Because the garrison commander has effective control over both the shelters and the militia that will defend them, defense within a city probably would be well coordinated and stubborn

Construction. Chinese civil defense construction has

steadily improved in quality since the mid-1970s, when

better materials and state-established construction

standards became available. The Municipal People's Air Defense Office constructs civil defense shelters using militia labor, PLA engineers, plans and special

materials furnished by Beijing, and local construction

materials that meet the high national standards.2 Over

technical competence, standardized designs, and pre-

fabricated structural components associated with tun-

the last several years, there has been an upsurge in

nel construction as China has incorporated shelters

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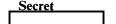
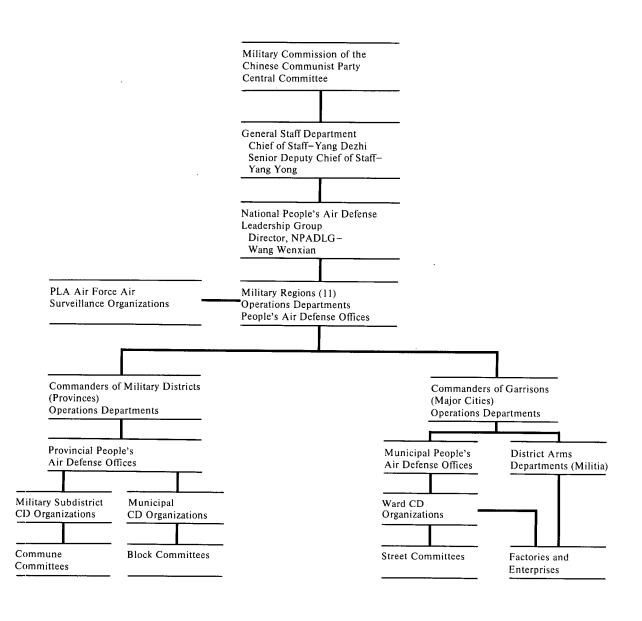
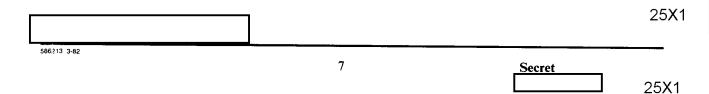


Figure 5

Chinese Civil Defense Command Structure

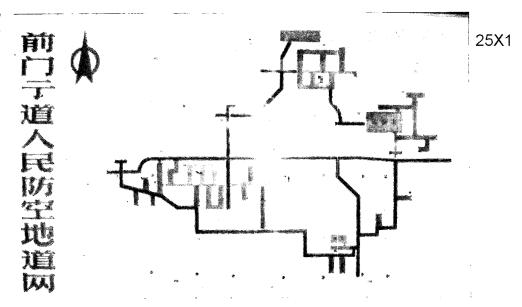




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Figure 6. Underground tunnel system, Qianmen District, Beijing.



Militia and PLA troops would be of considerable value in opposing enemy infantry from the buildings and streets of a major city.

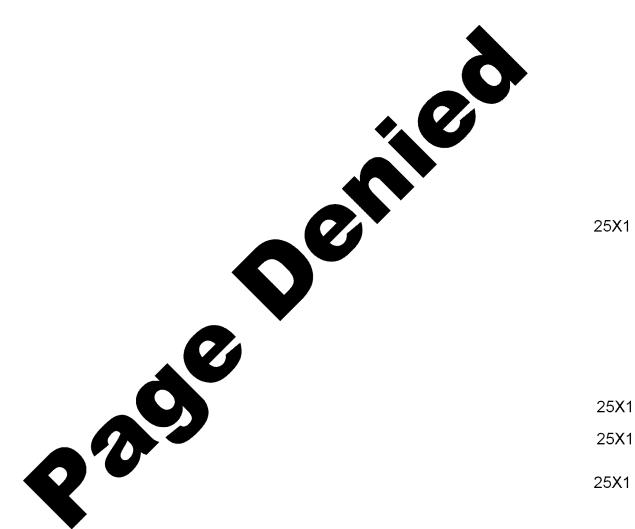
The urban shelter complexes—defended by troops and Armed Militia—would be used to hold the cities and impede the Soviet advance. The Chinese have taken care to construct fighting positions in many of their shelters. In addition, the shelters provide excellent cover and concealment and, because they often are linked together by underground passageways, would permit swift movement of troops and militia from one part of the city to another (see figure 6). In such circumstances, Soviet infantry might become bogged down in lengthy—and costly—street fighting that would slow the rate of advance and produce considerable battle losses. Bunkers would have to be taken street by street from tenacious Chinese defenders (see figure 7).

⁶ The militia consists of three components: Armed Militia, Backbone Militia, and Ordinary Militia. The Ordinary Militia has little if any military training and probably is of use primarily as corvee for construction projects. The Backbone Militia consists of some demobilized PLA soldiers and cadre. As such, it constitutes a manpower pool to replenish battle losses. The Armed Militia, a force of about 7 million, consists of PLA veterans and party personnel. It is reasonably well trained and would be the militia's primary contribution to urban defense.

The alternative to securing the major cities would be semipermanent deployment of Soviet forces to sur-25X1 round and isolate them. If the Soviets were unwilling to pay the price of clearing the enemy from their shelters, they would face rear area security problems and degradation of their logistical support system. Chinese defenders could hold out almost indefinitely in their tunnels and bunkers against conventional bombing or artillery fire, though they might succumb to nuclear fallout or to attacks by chemical or biological weapons. Aside from the boost to morale and propaganda of holding a major city such as Harbin against the Soviets, a city's defenders would serve as a constant threat to the Soviet Army's rear, tying down units that could be used elsewhere. Additionally, the 25X1 Soviets would have to forward bulky supplies such as petroleum and ammunition and to evacuate casualties with only limited use of the rails.

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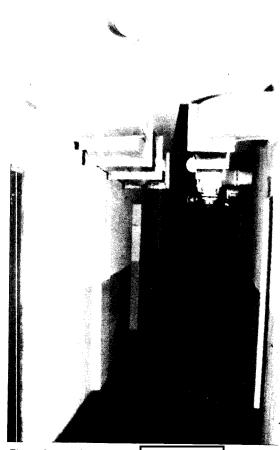


Figure 8. Ventilation system

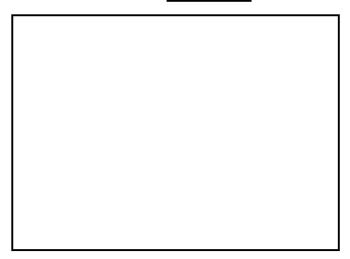




Figure 9. Newly designed concrete and steel door in shelter beneath Chinese Academy of Sciences.

China's lack of attention to civil defense training for the general public contrasts the occasional drills of the militia in urban defense. Chinese civil defense officials and the public apparently have not taken civil defense exercises seriously since about 1971, when 25X1 training was more frequent. We judge that Beijing now believes that a Soviet attack is not likely within the next few years, and it probably wishes to reduce disruptions to production that would result from a more ambitious drill program. Continued improvements to the shelter systems, however, suggest that the Chinese still value them as a contingency measure should the threat of hostilities with the USSR increase.

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Annex

Demographic and Industrial Profile of Key Northern Cities

Military District	City	Area (sq km)	Population	Major Industries
Shenyang Military Region (1	7 percent of China's total ind	ustrial production)		
Heilongjiang	Harbin a	150	2,500,000	Electrical equipment, bearings, and heavy machinery.
	Qiqihar b	55	1,000,000	Railroad cars, machine tools, and heavy machinery.
	Mudanjiang	20	500,000	Tires and aluminum.
	Jiamusi	20	400,000	Aluminum.
	Anda	Fragmented	650,000	Oil (site of Daqing), refining, and petrochemicals.
Jilin	Changchun	120	1,500,000	Trucks and railroad cars.
	Jilin	60	1,000,000	Chemicals and iron and steel.
Liaoning	Shenyang c	155	2,750,000	Machine tools, heavy machinery, steel, and electronics.
	Dalian d	80	1,500,000	Shipbuilding, railroad cars, and diesel locomotives.
	Fushun	85	1,500,000	Coal, aluminum, steel, and oil refining.
	Anshan	70	1,250,000	Iron and steel.
Beijing Military Region (13 p	ercent of China's total indust	rial production)		
Beijing garrison	Beijing c	200	5,000,000	Machine tools, electronics, and iron and steel.
Tianjin garrison	Tianjin	125	3,500,000	Steel and electronics.
Shanxi	Taiyuan	85	2,000,000	Iron and steel, chemicals, and heavy machinery.
	Datong	25	500,000	Cement, diesel engines, and steam locomotives.
Nei Mongol	Baotou f	50	1,000,000	Iron and steel and aluminum.
	Hohhot 8	40	800,000	Machinery and electronics.

a Important producer of light tanks, military aircraft, and helicopters.

Italics	denote	cities	with	well-d	leveloped	tunnel	and	shelter	systems.
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b Produces bulk of China's long-range artillery.
c Key producer of military aircraft and surface-to-air missiles.

^d Important naval facilities are located here.

e Produces nearly all of China's armored personnel carriers.

f Leading producer of medium tanks and antiaircraft artillery.

g Producer of solid propellants for strategic missiles.

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